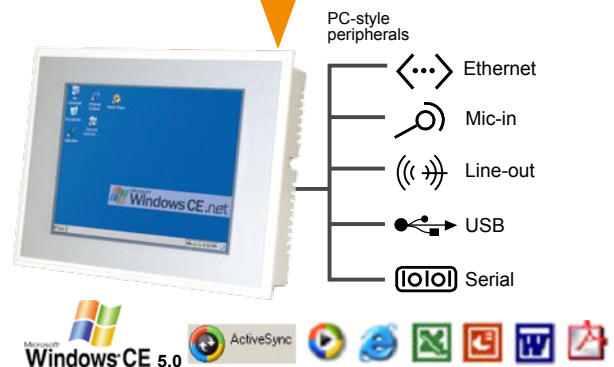# IPXA270-DK01

Intel XScale PXA270 Platform and Windows CE 5.0 Development Kits

IEI offers ready-to-run rapid application development kits, the IPXA270-DK01, which features all hardware needed for immediate start-up, subsequent development, and evaluation for OEM/ODM services. Both Windows CE .NET 5.0 BSP and SDK are provided for customers to develop Windows CE 5.0 application software and to customize their own Windows CE 5.0 OS image. IEI also provides several standard RISC-based industrial embedded SBC (Single Board Computer) such as the KAMIO series Intel XScale PXA270 embedded SBC. IEI welcomes OEM/ODM of these solutions and recommend our customers to use IPXA270-DK01 to evaluate our solutions.

Feature

● Powered by Intel XScale PXA270 RISC-based processor running in 520 MHz speed.

● Rugged, compact, wide-temperature, and low power consumption embedded hardware design without failure-prone hard disk and fan.

● Fancy PC-style peripherals including dual Ethernet ports, serial ports, USB ports, Compact Flash memory, audio, and touch input.

● Built-in standard Windows CE 5.0 embedded hard real-time operating system stored in and boot up from default 128MB compact flash memory card.

● Rich Windows CE 5.0 Built-in Applications and Services such as IE, Word, Excel, Power Point, PDF, picture viewers, WordPad editor, Media Player, FTP server, web, server, telnet service, VNC server, DOS prompt, RDP thin client terminal service, and ActiveSync.

● BSP(Board Support Packages) of IPXA270-DK01 for Windows CE 5.0 is provided for customizing Windows CE 5.0 OS image.

● Powerful software development kit (SDK) supports Microsoft eMbedded Visual C++® and Microsoft Visual Studio® .NET to provide a complete development environment for building Windows CE 5.0 application software including Web services and Microsoft .NET Compact Framework applications.

● IEI utilities and Remote Management Tools help configuring and managing Windows CE devices on site or remotely.

Developing your OS and Applications in PC

PC-style peripherals
- Ethernet
- Mic-in
- Line-out
- USB
- Serial

Specification

System

- Intel XScale PXA270 520MHz processor
- 2 MB boot flash
- 128 MB SDRAM
- 128 MB Compact Flash
  (38 MB reserved for Windows CE 5.0, 90 MB for user data and programs)
- Battery-backup RTC
- Watch Dog Timer
- Reset button

Display :

- Type : Color Active Matrix TFT
- Size : 10.4"
- Resolution : 800 x 600, 16 bit color graphics
- Brightness : 230 cd/m2
- Input : 4-wired resistive touch panel

I/O and Communication :

- Ethernet : 10/100 Mbps x 2
- Serial port : RS-232 x 1, RS-485/422/232 x 1
- USB : Host (Rev. 1.1) x 2
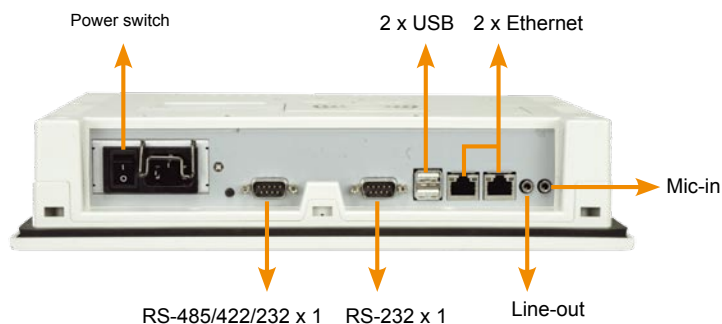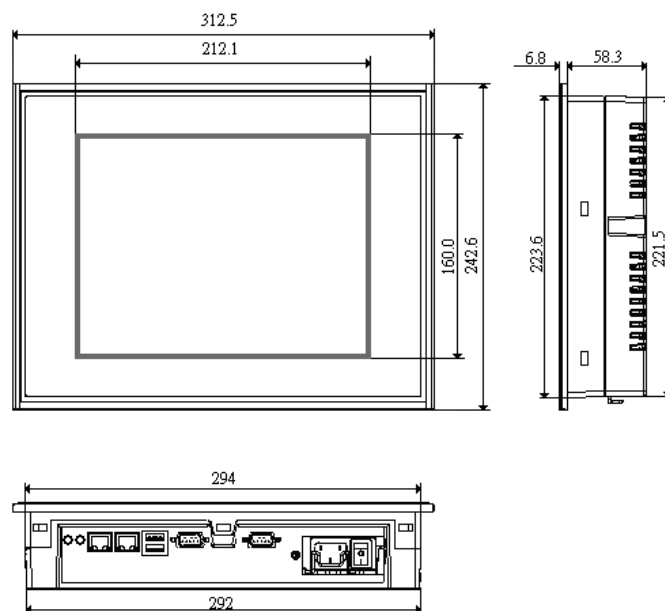- Audio : Mic-in x 1, Line-out x 1

Power :

- Power Supply : AC 100-240V power input
- Power Consumption : 15W

Environmental :

- Operation Temperature : 0 – 50°C
- Humidity : 5%RH to 90%RH (non-condensing)
- Vibration : 5~17Hz, 0.1" double amplitude displacement;
  17~640Hz, 1.5G acceleration peak to peak.
- Shock : 10G acceleration peak to peak
- Front panel meet IP65 standard

Dimensions

Ordering Information

Part No.	Description
IPXA270-DK01-R10	Intel XScale PXA270 platform Windows CE 5.0 OS/Application Development Kits

Packaging List

IPXA270-DK01-R10	1 x IPXA270-DK01 1 x Utility CD including SDK, BSP, utilities, and technical documentations 1 x Power cable 1 x Null modem cable 1 x Touch pen 1 x Screw kit